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(54) **MODULAR FRAME LOAD HANDLER WITH
TRANSLATABLE BOOM CARRIAGE**

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patent is extended or adjusted under 35
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This patent is subject to a terminal dis-
claimer.

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280/797, 798, 786, 124.109, 414.1; 180/312,
180/291, 311; 296/205

See application file for complete search history.

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(57) **ABSTRACT**

A load handler with a modular frame and the manufacture and
assembly of the frame and loader and components that may be
used therein. A frame is provided that has a low pivot point for
a boom. The frame has left and right side rails, and front and
rear cross rails, each having a closed cross-section construc-
tion. The side rails and cross rails are modular and the cross
rails of a selected size are configured to fit a plurality of sizes
of side rails, such that the same size cross rails may be used to
construct a variety sizes and capabilities of load handling
vehicles in a flow type manufacturing process. A structural
beam is provided having plates interconnected along their
lengths to form the beam having a box-shaped closed cross-
section having a perimeter generally along the widths of the
plates and forming a beam cavity within the perimeter.

6 Claims, 15 Drawing Sheets

